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APPLICATION NO	Э.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/623,244		07/18/2003	Jose Amo	ATMI-567-DIV	2880	
25559	7590	07/13/2005		EXAM	EXAMINER	
ATMI, II	NC. ERCE DRI	VF.	STEVENSON	STEVENSON, ANDRE C		
,	Y, CT 06	· -	ART UNIT	PAPER NUMBER		
				2812		
			DATE MAILED: 07/13/2003	DATE MAILED: 07/13/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/623,244	ARNO, JOSE					
Office Action Summary	Examiner	Art Unit					
-							
The MAILING DATE of this communication ann	Andre' C. Stevenson	2812					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period was reply to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 12 Ag	oril 2005.						
· · · · · · · · · · · · · · · · · · ·	action is non-final.	•					
3) Since this application is in condition for allowan	<u>'</u>						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 30-45 is/are pending in the application	· 1.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) <u>30-34,36,37,39 and 41-45</u> is/are reject	6)⊠ Claim(s) <u>30-34,36,37,39 and 41-45</u> is/are rejected.						
7)⊠ Claim(s) <u>35,38 and 40</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau	` ' ''						
* See the attached detailed Office action for a list of the certified copies not received.							
	The state of the s	YNNE A. GURLEY					
Markov (4)	PRIM	ARY PATENT EXAMINER					
Attachment(s) 1) Notice of References Cited (PTO-892)		C 2800, AU 2812					
2) Notice of Preferences Cited (P10-692) Notice of Draftsperson's Patent Drawing Review (PT0-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da	nte					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTO-152)					
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DETAILED ACTION

Applicant's argues: "Nothing in Lammerick teaches or suggest how to determine the concentration of a desired component in a gas".

Examiner's Answer: The Examiner takes the position that the terms used in the claim language, such as, "generating an output from said thermopile detector indicative of concentration of said selected component", constitutes a wider scope than the argument presented. As stated in IEEE 100 "The Authoritative Dictionary of IEEE Standards Terms", Thermopile, is defined as a group of thermocouples in a series aiding. This term is usually applied to a device used either to measure radiant power or energy or as a source of electric energy. If the applicant is using the term thermopile as it is originally defined, the Examiner takes the position that "indicative" must mean a measurement, of some power or energy producing quantity that is connected to the concentration of the component. The Examiner maintains the position that Lammerink shows the method of the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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Claims 30-34, 36, 37, 39, 41-45 are rejected under 35 U.S.C. 102(e) as being anticipated by Lammerink (U.S. Pat 6370950 B1).

Lammerink (U.S. Pat 6370950 B1), for Claim #30, a method of operating a semiconductor process including processing of or with a gas (column 1, line 4 through 7), said method comprising sensing concentration of a desired component of said gas with a thermopile detector (column 8, line 10 through 16), generating an output (column 7, line 35 through 48) from said thermopile detector indicative of concentration of said selected component of said gas, and controlling one or more conditions in and/or affecting the semiconductor process, in response to said output, (column 7, line 43 through 48). With respect to Claim #31, the method wherein the one or more conditions in and/or affecting the process include flow rate of a chemical reagent to a semiconductor process tool, is taught by Lammerink (U.S. Pat 6370950 B1), (Abstract, column 8, line 19 through 23). Furthermore, Claims #32, the method, wherein the one or more conditions in and/or affecting the process include flow rate of a gas stream discharged from or flowed to a process unit in the semiconductor process, is taught by Lammerink (U.S. Pat 6370950 B1), (column 8, line 19 through 23). Considering now Claim #33, the method wherein the gas stream to a semiconductor process tool is monitored, is taught by Lammerink (U.S. Pat 6370950 B1), (column 8, line 19 through 23). With respect to Claim #34, the method, wherein the gas stream flowed to an abatement unit is monitored, is taught by Lammerink (U.S. Pat 6370950 B1), (column 8, line 19 through 23). Considering now Claim #36, the method wherein the thermopile sensor output is employed to modulate a value is taught Application/Control Number: 10/623,244

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by Lammerink (U.S. Pat 6370950 B1), (column 9, line 25 through 41). With respect to Claim #37, the method wherein the thermopile detector output is employed to modulate a set point of mass flow controller, is taught by Lammerink (U.S. Pat 6370950 B1), (column 8, line 19 through 24). Furthermore, Claim #39, the method wherein the thermopile detector output is employed to terminate a first process step and initiate a second process step, is taught by Lammerink (U.S. Pat 6370950 B1), (column 9, line 25 through 41, column 8, line 19 through 24). Considering now Claim #41, a method of operating a semiconductor process including processing of or with a material (column 1, line 4 through 7), said method comprising sensing concentration of a desired component of said material with a thermopile detector (column 8, line 10 through 16), generating a output form (column 7, line 35 through 48) said thermopile indicative of concentration of said selected component of said material and controlling one or more conditions in and/or affecting the semiconductor process, in response to said output is taught by Lammerink (U.S. Pat 6370950 B1), (column 7, line 43 through 48). With respect to Claim #42, the method wherein the material comprises a solid, is taught by Lammerink (U.S. Pat 6370950 B1), (column 7, line 49 through 59, column 8, line 56 through 64). Furthermore, Claim #43, the method wherein the material comprises a fluid, is taught by Lammerink (U.S. Pat 6370950 B1), (column 1, line 4 through 7). Considering now Claim #44, the method wherein the material comprises a liquid, is taught by Lammerink (U.S. Pat 6370950 B1), (column 1, line 4 through 7). With respect to Claim #45, the method wherein the material comprises a gas, is taught by Lammerink (U.S. Pat 6370950 B1), (column 1, line 4 through 7).

Objected Clams

Claims 35, 38 and 40 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 35

✓ Wherein the gas stream discharged by an abatement unit is monitored.

Claim 38

✓ Scrubbing medium in an abatement treatment step of the process..

Claim 40

✓ Modulate recycle of a fluid stream in the process.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866 – 217 – 9197 (toll-free).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andre C. Stevenson whose telephone number is (571) 272 1683. The examiner can normally be reached on Monday through Friday from 9:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt, can be reached on (571) 272 1679. The fax phone number for the organization where this application or proceeding is assigned is (703) 308 7724.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308 1782. Also, the proceeding numbers can be used to fax information through the Right Fax system;

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LYNNE A. GURLEY

PRIMARY PATENT EXAMINER

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TC 2800, AU 2812

Andre C. Stevenson

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